

# STN Columbus

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NEWS 6 JAN 28 USGENE now provides USPTO sequence data within 3 days
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NEWS 7 JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment
NEWS 8 JAN 28 MEDLINE and LMEEDLINE reloaded with enhancements
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NEWS 12 FEB 25 IMSPRODUCT reloaded with enhancements
NEWS 13 FEB 29 WPINDEX/WPIDS/WPIX enhanced with ECLA and current
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NEWS 14 MAR 31 IFICDB, IFIPAT, and IFIUDB enhanced with new custom
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NEWS 15 MAR 31 CAS REGISTRY enhanced with additional experimental
              spectra
NEWS 16 MAR 31 CA/CAPLUS and CASREACT patent number format for U.S.
              applications updated
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NEWS 18 MAR 31 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
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NEWS 20 APR 15 WPIDS, WPINDEX, and WPIX enhanced with new
              predefined hit display formats
NEWS 21 APR 28 EMBASE Controlled Term thesaurus enhanced
NEWS 22 APR 28 IMSRESEARCH reloaded with enhancements

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

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NEWS IPC8     For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 15:11:55 ON 20 MAY 2008

=> file scisearch		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'SCISEARCH' ENTERED AT 15:12:04 ON 20 MAY 2008  
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FILE COVERS 1974 TO 15 MAY 2008 (20080515/ED)

SCISEARCH has been reloaded, see HELP RLOAD for details.

=> s hewitt sd/au  
L1 0 HEWITT SD/AU

=> s hewitt s/au  
L2 151 HEWITT S/AU

=> s lunec j/au  
L3 392 LUNEC J/AU

=> s morris c/au  
L4 629 MORRIS C/AU

=> s l2 and l3 and l4  
L5 2 L2 AND L3 AND L4

=> s blake d/au  
L6 271 BLAKE D/AU

=> s l6 and l5  
L7 0 L6 AND L5

=> d l5 1-2

L5 ANSWER 1 OF 2 SCISEARCH COPYRIGHT (c) 2008 The Thomson

Full Text

Corporation on STN  
AN 1985:328411 SCISEARCH  
GA The Genuine Article (R) Number: AJL95  
TI DEFERRIOXAMINE TREATMENT FOR RHEUMATOID SYNOVITIS  
AU BLAKE D R (Reprint); **LUNEC J**; WILLIAMS A; **MORRIS C**; **HEWITT S**  
CS MED SCH BIRMINGHAM, BIRMINGHAM B15 2TJ, W MIDLANDS, ENGLAND  
CYA ENGLAND  
SO BRITISH JOURNAL OF RHEUMATOLOGY, (1985) Vol. 24, No. 2, pp. 214-215.  
ISSN: 0263-7103.  
PB OXFORD UNIV PRESS, WALTON ST JOURNALS DEPT, OXFORD, ENGLAND OX2 6DP.  
DT Conference; Journal  
FS CLIN  
LA English  
REC Reference Count: 0  
ED Entered STN: 1994  
Last Updated on STN: 1994

L5 ANSWER 2 OF 2 SCISEARCH COPYRIGHT (c) 2008 The Thomson

Full Text

Corporation on STN  
AN 1985:234686 SCISEARCH  
GA The Genuine Article (R) Number: AFJ91  
TI IRON STORAGE AND SYNOVIAL INFLAMMATION  
AU **MORRIS C** (Reprint); BLAKE D R; **HEWITT S**; YOSHINO S; **LUNEC J**; BACON P A  
CS MED SCH BIRMINGHAM, RHEUMATISM RES WING, BIRMINGHAM B15 2TJ, W MIDLANDS,  
ENGLAND  
CYA ENGLAND  
SO BRITISH JOURNAL OF RHEUMATOLOGY, (1985) Vol. 24, No. 1, pp. 79-80.  
ISSN: 0263-7103.  
PB OXFORD UNIV PRESS, WALTON ST JOURNALS DEPT, OXFORD, ENGLAND OX2 6DP.  
DT Conference; Journal  
FS CLIN  
LA English  
REC Reference Count: 0  
ED Entered STN: 1994  
Last Updated on STN: 1994

=> s annals of the rheumatic diseases/jt  
L8 19541 ANNALS OF THE RHEUMATIC DISEASES/JT  
(ANNALS OF THE RHEUMATIC DISEASES/JT)

=> s l8 and 1987/py  
718521 1987/PY  
(19870000-19879999/PY)  
L9 232 L8 AND 1987/PY

=> s l9 and radical/ti  
63641 RADICAL/II  
L10 3 L9 AND RADICAL/II  
=> d l10 1-3

L10 ANSWER 1 OF 3 SCISEARCH COPYRIGHT (c) 2008 The Thomson

Full Text

Corporation on STN  
AN 1987:617412 SCISEARCH  
GA The Genuine Article (R) Number: K6473  
TI EFFECT OF FREE-RADICAL ALTERED IGG ON ALLERGIC INFLAMMATION  
AU HEWITT S D (Reprint); LUNEC J; MORRIS C J; BLAKE D R  
CS UNIV BIRMINGHAM, SCH MED, DEPT RHEUMATOL, VINCENT DR, BIRMINGHAM B15 2TJ,  
W MIDLANDS, ENGLAND (Reprint)  
CYA ENGLAND  
SO **ANNALS OF THE RHEUMATIC DISEASES, (NOV 1987)** Vol. 46, No. 11, pp.  
866-874.  
ISSN: 0003-4967.  
PB BRITISH MED JOURNAL PUBL GROUP, BRITISH MED ASSOC HOUSE, TAVISTOCK SQUARE,  
LONDON, ENGLAND WC1H 9JR.  
DT Article; Journal  
FS LIFE; CLIN  
LA English  
REC Reference Count: 35  
ED Entered STN: 1994  
Last Updated on STN: 1994

L10 ANSWER 2 OF 3 SCISEARCH COPYRIGHT (c) 2008 The Thomson

Full Text

Corporation on STN  
AN 1987:220679 SCISEARCH  
GA The Genuine Article (R) Number: G8178  
TI POLYMORPHONUCLEAR LEUKOCYTE FUNCTION AND PREVIOUS YERSINIA ARTHRITIS -  
ENHANCED CHEMOKINETIC MIGRATION AND OXYGEN RADICAL PRODUCTION CORRELATE  
WITH THE SEVERITY OF THE ACUTE DISEASE  
AU KOIVURANTAVAARA P (Reprint); LEIRISALOPEO M; REPO H  
CS UNIV HELSINKI, DEPT BACTERIOL & IMMUNOL, HAARTMANINKATU 3, SF-00290  
HELSINKI 29, FINLAND (Reprint); UNIV HELSINKI, CENT HOSP, DEPT MED 2,  
SF-00290 HELSINKI 29, FINLAND; FINNISH RED CROSS BLOOD TRANSFUS SERV,  
HELSINKI, FINLAND  
CYA FINLAND  
SO **ANNALS OF THE RHEUMATIC DISEASES, (APR 1987)** Vol. 46, No. 4, pp. 307-313.  
ISSN: 0003-4967.  
PB BRITISH MED JOURNAL PUBL GROUP, BRITISH MED ASSOC HOUSE, TAVISTOCK SQUARE,  
LONDON, ENGLAND WC1H 9JR.  
DT Article; Journal  
FS LIFE; CLIN  
LA English  
REC Reference Count: 23  
ED Entered STN: 1994  
Last Updated on STN: 1994

L10 ANSWER 3 OF 3 SCISEARCH COPYRIGHT (c) 2008 The Thomson

Full Text

Corporation on STN  
AN 1987:48546 SCISEARCH  
GA The Genuine Article (R) Number: F6544  
TI DEPRESSED SUPEROXIDE RADICAL GENERATION BY NEUTROPHILS FROM PATIENTS  
WITH RHEUMATOID-ARTHRITIS AND NEUTROPENIA - CORRELATION WITH NEUTROPHIL  
REACTIVE IGG  
AU DAVIS P (Reprint); JOHNSTON C; BERTOUCHE J; STARKEBAUM G  
CS UNIV ALBERTA, DEPT MED, RHEUMAT DIS UNIT, 9-112 CLIN SCI BLDG, EDMONTON  
T6G 2G3, ALBERTA, CANADA (Reprint); UNIV WASHINGTON, VET ADM MED CTR, DEPT  
MED, SEATTLE, WA 98108  
CYA CANADA; USA  
SO **ANNALS OF THE RHEUMATIC DISEASES, (JAN 1987)** Vol. 46, No. 1, pp. 51-54.  
ISSN: 0003-4967.  
PB BRITISH MED JOURNAL PUBL GROUP, BRITISH MED ASSOC HOUSE, TAVISTOCK SQUARE,  
LONDON, ENGLAND WC1H 9JR.  
DT Article; Journal  
FS LIFE; CLIN

LA English  
REC Reference Count: 14  
ED Entered STN: 1994  
Last Updated on STN: 1994

=> sel L10 1 CIT  
E1 THROUGH E1 ASSIGNED

=> s E1  
L11 14 "HEWITT S D, 1987, V46, P866,?"/RE  
( "HEWITT S D, 1987, V46, P866,?"/RE)

=> d l11 1-14 ibib abs

L11 ANSWER 1 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson

Full Text

Corporation on STN  
ACCESSION NUMBER: 2008:420809 SCISEARCH  
THE GENUINE ARTICLE: 271WD  
TITLE: Free radicals and antioxidants in inflammatory processes  
and ischemia-reperfusion injury  
AUTHOR: Vajdovich, Peter (Reprint)  
CORPORATE SOURCE: Szent Istvan Univ, Dept Internal Med & Clin, Istvan U 2,  
POB 1400, H-1078 Budapest, Hungary (Reprint); Szent Istvan  
Univ, Dept Internal Med & Clin, H-1078 Budapest, Hungary  
[vajdovich.peter@aotk.szie.hu](mailto:vajdovich.peter@aotk.szie.hu)  
COUNTRY OF AUTHOR: Hungary  
SOURCE: VETERINARY CLINICS OF NORTH AMERICA-SMALL ANIMAL PRACTICE,  
(JAN 2008) Vol. 38, No. 1, pp. 31-+.  
ISSN: 0195-5616.  
PUBLISHER: W B SAUNDERS CO-ELSEVIER INC, 1600 JOHN F KENNEDY  
BOULEVARD, STE 1800, PHILADELPHIA, PA 19103-2899 USA.  
DOCUMENT TYPE: General Review; Journal  
LANGUAGE: English  
REFERENCE COUNT: 292  
ENTRY DATE: Entered STN: 27 Mar 2008  
Last Updated on STN: 27 Mar 2008

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB This article discusses the current understanding of the role of free  
radicals and antioxidants in inflammatory processes and in ischemia  
reperfusion injury. It begins by describing the manifestations of acute  
inflammation and outlining the cellular events that occur during  
inflammation. It then describes the biochemical mediators of inflammation  
with special attention to nitric oxide. It details the process of hypoxia  
reperfusion injury, the enzymes involved, its treatment, and studies  
involving specific hypoxia reperfusion injuries in various animal species.

L11 ANSWER 2 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson

Full Text

Corporation on STN  
ACCESSION NUMBER: 2005:1012918 SCISEARCH  
THE GENUINE ARTICLE: 9700K  
TITLE: Reactive oxygen species (ROS) induce chemical and  
structural changes on human insulin in vitro, including  
alterations in its immunoreactivity  
AUTHOR: Olivares-Corichi I M; Ceballos G; Ortega-Camarillo C;  
Guzman-Grenfell A M; Hicks J J (Reprint)  
CORPORATE SOURCE: Inst Nacl Enfermedades Resp, Subdirecc Invest Biomed,  
Unidad Invest, Lab Bioquim Inorgan, Calzada Tlalpan 4502,  
Colonia Secc 16, Mexico City 14080, DF, Mexico (Reprint);  
Inst Nacl Enfermedades Resp, Subdirecc Invest Biomed,  
Unidad Invest, Lab Bioquim Inorgan, Mexico City 14080, DF,  
Mexico; Hosp Juarez Mexico, Direcc Invest & Ensenanza, Lab  
Bioquim, Mexico City, DF, Mexico; Inst Politecn Nacl,  
Escuela Super Med, Secc Grad, Lab Multidisciplinario  
Invest, Mexico City, DF, Mexico; Inst Mexicano Seguro  
Social, Ctr Med Nacl Siglo 21, Hosp Especial, Unidad  
Invest Med Bioquim, Mexico City, DF, Mexico  
[jhicks@iner.gob.mx](mailto:jhicks@iner.gob.mx)  
COUNTRY OF AUTHOR: Mexico  
SOURCE: FRONTIERS IN BIOSCIENCE, (1 JAN 2005) Vol. 10, pp. 838-843

ISSN: 1093-9946.  
 PUBLISHER: FRONTIERS IN BIOSCIENCE INC, C/O NORTH SHORE UNIV  
 HOSPITAL, BIOMEDICAL RESEARCH CENTER, 350 COMMUNITY DR,  
 MANHASSET, NY 11030 USA.  
 DOCUMENT TYPE: Article; Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 30  
 ENTRY DATE: Entered STN: 20 Oct 2005  
 Last Updated on STN: 20 Oct 2005

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB Oxidative stress occurs when the production of reactive oxygen species (ROS) exceeds the endogenous antioxidant defense. Peroxidations induced by ROS are the key of chemical and structural modifications of biomolecules including circulating proteins. To elucidate the effect of ROS on circulating proteins and considering the presence of oxidative stress in Diabetes Mellitus, the effects of ROS, in vitro, on human insulin were studied. We utilized the Fenton reaction for free hydroxyl radical (HO<sup>•</sup>) generation in presence of human recombinant insulin measuring chemical changes on its molecular structure. The induced changes in insulin were: a) significant increase on absorbance (280 nm) due to phenylalanine hydroxylation (0.023 +/- 0.007 to 0.13 +/- 0.07). b) Peroxidation products formed on amino acids side branches (peroxyl and alcohoxyl group); measured as increased capacity of reduce nitroblue of tetrazolium (NBT) to formazan (0.007 +/- 0.007 to 0.06 +/- 0.02). c) Increased concentration of free carbonyl groups (8.8 +/- 8.7 to 45.6 +/- 20.2 pmoles dinitrophenylhydrazones/ nmol insulin) with lost of secondary structure, and d) Modification of epitopes decreasing the insulin antigen-antibody reactivity measured as a decrease in insulin concentration by RIA. In conclusion, the radical hydroxyl in vitro is able to induce molecular modifications on insulin.

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Corporation on STN  
 ACCESSION NUMBER: 2000:901006 SCISEARCH  
 THE GENUINE ARTICLE: 376PZ  
 TITLE: Inflammatory properties of IgG modified by oxygen radicals and peroxynitrite  
 AUTHOR: Uesugi M; Yoshida K; Jasin H E (Reprint)  
 CORPORATE SOURCE: Univ Arkansas Med Sci, Dept Internal Med, Teresa Scheu Rheumatoid Arthritis Res Lab, Div Clin Immunol & Rheumatol, Mail Slot 509, 4301 W Markham, Little Rock, AR 72205 USA (Reprint); Univ Arkansas Med Sci, Dept Internal Med, Teresa Scheu Rheumatoid Arthritis Res Lab, Div Clin Immunol & Rheumatol, Little Rock, AR 72205 USA; John L McClellan Mem Vet Adm Med Ctr, Little Rock, AR 72205 USA  
 COUNTRY OF AUTHOR: USA  
 SOURCE: JOURNAL OF IMMUNOLOGY, (1 DEC 2000) Vol. 165, No. 11, pp. 6532-6537.  
 ISSN: 0022-1767.  
 PUBLISHER: AMER ASSOC IMMUNOLOGISTS, 9650 ROCKVILLE PIKE, BETHESDA, MD 20814 USA.  
 DOCUMENT TYPE: Article; Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 28  
 ENTRY DATE: Entered STN: 2000  
 Last Updated on STN: 2000

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB In inflammatory arthritis, there is evidence indicating that the affected tissues produce large amounts of oxygen-free radicals and NO. Herein, we examine the biologic effects of exposure of IBG to hypochlorous acid (HOCl) and peroxynitrite (ONOO), The concentrations of IgG modified by chlorination and nitrosation were measured in synovial fluids from inflammatory and noninflammatory arthritis. Human IgG was exposed to increasing concentrations of HOCl and ONOO, and the resulting products were tested for complement component binding; binding to Fc gamma RI; activation of polymorphonuclear neutrophils; effect on the Ab-combining site of Abs; and in vivo inflammatory activity in a rabbit model of acute arthritis. Rheumatoid synovial fluids contained significantly greater concentrations of nitrosated and chlorinated IgG compared with osteoarthritic specimens, In vitro exposure of human IgG to HOCl and ONOO

resulted in a concentration-dependent decrease in C3 and C1q fixation. The decrease in Pc domain-dependent biologic functions was confirmed by competitive binding studies to the Fc gamma RI of U937 cells. HOCl-treated IgG monomer was 10 times less effective in competing for binding compared with native IgG, and ONOO-treated IgG was 2.5 times less effective. The modified IgGs were also ineffective in inducing synthesis of H2O2 by human PMN. The Ag-binding domains of IgG also showed a concentration-dependent decrease in binding to Ag. The ability of the modified IgGs to induce acute inflammation in rabbit knees decreased 20-fold as gauged by the intensity of the inflammatory cell exudates. These studies clarify the modulating role of biological oxidants in inflammatory processes in which Ag-autoantibody reactions and immune complex pathogenesis may play an important role.

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Corporation on STN  
 ACCESSION NUMBER: 1996:100438 SCISEARCH  
 THE GENUINE ARTICLE: TR824  
 TITLE: Quantitative photometrical assessment of iron deposits in synovial membranes in different joint diseases  
 AUTHOR: Fritz P (Reprint); Saal J G; Wicherek C; Konig A; Laschner W; Rautenstrauch H  
 CORPORATE SOURCE: ROBERT BOSCH KRANKENHAUS, DEPT PATHOL, AUERBACHSTR 110, D-70376 STUTTGART, GERMANY (Reprint); DEPT HAEMATOL ONCOL IMMUNOL & RHEUMATOL, TUBINGEN, GERMANY; BAUMANN KLIN, STUTTGART, GERMANY; KARL OLGA KRANKENHAUS, DEPT ORTHOPAED SURG, STUTTGART, GERMANY; KREISKRANKENHAUS BAD SCHUSSENREID, BAD SCHUSSENREID, GERMANY  
 COUNTRY OF AUTHOR: GERMANY  
 SOURCE: RHEUMATOLOGY INTERNATIONAL, (JAN 1996) Vol. 15, No. 5, pp. 211-216.  
 ISSN: 0172-8172.  
 PUBLISHER: SPRINGER VERLAG, 175 FIFTH AVE, NEW YORK, NY 10010.  
 DOCUMENT TYPE: Article; Journal  
 FILE SEGMENT: LIFE; CLIN  
 LANGUAGE: English  
 REFERENCE COUNT: 44  
 ENTRY DATE: Entered STN: 1996  
 Last Updated on STN: 1996

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB We investigated 86 synovial membranes from patients suffering either from rheumatoid arthritis (RA) or osteoarthritis (OA). Iron deposits in the synovial membrane were stained by the Prussian blue reaction, and the amount of stained iron was quantitatively assessed by microscope photometry. We found a statistically significant increase in iron deposits in the synovial membrane of RA patients when compared to OA patients. The amount of iron deposits correlated with the histological subtype of synovitis, those presenting with more exudative and proliferative features showing greater amounts of iron deposits. We also observed an inverse correlation between the haemoglobin concentration and erythrocytes in the serum and the amount of iron in the synovial membrane. From our data we concluded that iron deposits in the synovial membrane can contribute by several mechanisms, including activation of oxygen radicals, to the chronic inflammatory reaction in RA synovitis.

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Corporation on STN  
 ACCESSION NUMBER: 1995:450148 SCISEARCH  
 THE GENUINE ARTICLE: RF933  
 TITLE: HYPOXIA, OXIDATIVE STRESS AND RHEUMATOID-ARTHRITIS  
 AUTHOR: MAPP P I (Reprint); GROOTVELD M C; BLAKE D R  
 CORPORATE SOURCE: LONDON HOSP, COLL MED, INFLAMMAT RES GRP, WHITECHAPEL, LONDON, ENGLAND (Reprint)  
 COUNTRY OF AUTHOR: ENGLAND  
 SOURCE: BRITISH MEDICAL BULLETIN, (APR 1995) Vol. 51, No. 2, pp. 419-436.  
 ISSN: 0007-1420.  
 PUBLISHER: CHURCHILL LIVINGSTONE, JOURNAL PRODUCTION DEPT, ROBERT STEVENSON HOUSE, 1-3 BAXTERS PLACE, LEITH WALK, EDINBURGH, MIDLOTHIAN, SCOTLAND EH1 3AF.

DOCUMENT TYPE: Article; Journal  
 FILE SEGMENT: LIFE; CLIN  
 LANGUAGE: English  
 REFERENCE COUNT: 43  
 ENTRY DATE: Entered STN: 1995  
 Last Updated on STN: 1995

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB The synovial cavity has a negative pressure in health. When the joint is exercised, vascular patency is maintained, allowing for nutrition of the avascular cartilage.

In rheumatoid synovitis, the situation is altered. The cavity pressure is raised and upon movement this pressure exceeds the capillary perfusion pressure, causing collapse of the blood vessels. This leads to the production of multiple episodes of 'hypoxic-reperfusion injury' generating reactive oxygen species (ROS). Such ROS oxidise:

(a) IgG, inducing rheumatoid factor production (b) Hyaluronan, leading to hyaluronan fragmentation products which may alter immune function (c) Lipids, generating aldehydes which are toxic and may alter T cell/macrophage interactions (d) lipoproteins, leading to the production of monocyte chemotactic peptides.

Progressive hypoxia alters immune function, predominantly by calcium mediated pathways.

L11 ANSWER 6 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson

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Corporation on STN  
 ACCESSION NUMBER: 1995:315927 SCISEARCH  
 THE GENUINE ARTICLE: QW129  
 TITLE: PRESSURE AND VASCULAR CHANGES IN MOBILE JOINTS - IMPLICATIONS FOR INFLAMMATORY JOINT DISEASE  
 AUTHOR: GAFFNEY K (Reprint); EDMONDS S E; STEVENS C R; BLAKE D R  
 CORPORATE SOURCE: UNIV LONDON LONDON HOSP, COLL MED, ARC BONE & JOINT RES UNIT, INFLAMMAT RES GRP, LONDON E1 2AD, ENGLAND  
 COUNTRY OF AUTHOR: ENGLAND  
 SOURCE: SCANDINAVIAN JOURNAL OF RHEUMATOLOGY, (1995) Supp. [101], pp. 21-26.  
 PUBLISHER: TAYLOR & FRANCIS AS, CORT ADELERSGT 17, PO BOX 2562, SOLLI, 0202 OSLO, NORWAY.  
 DOCUMENT TYPE: Article; Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 51  
 ENTRY DATE: Entered STN: 1995  
 Last Updated on STN: 1995

L11 ANSWER 7 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson

[Full Text](#)

Corporation on STN  
 ACCESSION NUMBER: 1994:703228 SCISEARCH  
 THE GENUINE ARTICLE: PN983  
 TITLE: 2-DIMENSIONAL CRYOSTAT SECTION ELECTROPHORESIS - A NOVEL METHOD AND ITS APPLICATION TO THE DISEASED SYNOVIAL-MEMBRANE  
 AUTHOR: FRITZ P (Reprint); MISCHLINSKI A; WICHEREK C; SAAL J  
 CORPORATE SOURCE: ROBERT BOSCH KRANKENHAUS, INST PATHOL, AUERBACHSTR 110, D-70376 STUTTGART, GERMANY (Reprint); MED KLIN, ABT 2, D-72076 TUBINGEN, GERMANY  
 COUNTRY OF AUTHOR: GERMANY  
 SOURCE: HISTOCHEMICAL JOURNAL, (OCT 1994) Vol. 26, No. 10, pp. 804-816.  
 PUBLISHER: CHAPMAN HALL LTD, 2-6 BOUNDARY ROW, LONDON, ENGLAND SE1 8HN.  
 DOCUMENT TYPE: Article; Journal  
 FILE SEGMENT: LIFE  
 LANGUAGE: English  
 REFERENCE COUNT: 51  
 ENTRY DATE: Entered STN: 1994  
 Last Updated on STN: 1994

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB A two-dimensional electrophoresis technique for analysing sections of human tissue is described. Cryostat sections, 10  $\mu$  m thick, are placed

on an isoelectric focusing gel and then transferred to an SDS gel in the second dimension. The protein pattern is visualized by silver staining and is thought to represent soluble proteins. The silver-stained proteins were found to be both reproducible and, to the extent tested, organ-specific. This method was used to analyse 43 synovial membranes from patients suffering from rheumatoid arthritis or degenerative joint diseases. The analysis did not reveal any specific protein pattern for rheumatoid arthritis. The protein spot number was not related to the cause of arthritis. However, the total protein spot number was related to the histomorphological synovitis type, with those exhibiting either an exudative or proliferative synovitis pattern possessing significantly higher protein spot numbers than those specimens exhibiting a sero-fibrous or lympho-plasmacytic pattern of synovitis.

L11 ANSWER 8 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson

Full Text

Corporation on SIN  
 ACCESSION NUMBER: 1991:192241 SCISEARCH  
 THE GENUINE ARTICLE: FD883  
 TITLE: SPECIATION OF NON-TRANSFERRIN-BOUND IRON IONS IN  
 SYNOVIAL-FLUID FROM PATIENTS WITH RHEUMATOID-ARTHRITIS BY  
 PROTON NUCLEAR-MAGNETIC-RESONANCE SPECTROSCOPY  
 AUTHOR: PARKES H G (Reprint); ALLEN R E; FURST A; BLAKE D R;  
 GROOTVELD M C  
 CORPORATE SOURCE: UNIV LONDON LONDON HOSP, COLL MED, BONE & JOINT RES UNIT,  
 INFLAMMAT GRP, LONDON E1 2AD, ENGLAND; UNIV LONDON,  
 BIRKBECK COLL, DEPT CHEM, LONDON WC1H 0PP, ENGLAND  
 COUNTRY OF AUTHOR: ENGLAND  
 SOURCE: JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, (1991)  
 Vol. 9, No. 1, pp. 29-32.  
 ISSN: 0731-7085.  
 PUBLISHER: PERGAMON-ELSEVIER SCIENCE LTD, THE BOULEVARD, LANGFORD  
 LANE, KIDLINGTON, OXFORD, ENGLAND OX5 1GB.  
 DOCUMENT TYPE: Article; Journal  
 FILE SEGMENT: LIFE  
 LANGUAGE: English  
 REFERENCE COUNT: 13  
 ENTRY DATE: Entered SIN: 1994  
 Last Updated on SIN: 1994

L11 ANSWER 9 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson

Full Text

Corporation on SIN  
 ACCESSION NUMBER: 1991:78610 SCISEARCH  
 THE GENUINE ARTICLE: EW047  
 TITLE: CHAIN BREAKING ANTIOXIDANT STATUS IN RHEUMATOID-ARTHRITIS  
 - CLINICAL AND LABORATORY CORRELATES  
 AUTHOR: SITUNAYAKE R D (Reprint); THURNHAM D I; KOOTATHEP S;  
 CHIRICO S; LUNEC J; DAVIS M; MCCONKEY B  
 CORPORATE SOURCE: DUDLEY RD GEN HOSP, DEPT MED & RHEUMATOL, CLIN INVESTIGAT  
 UNIT, DUDLEY RD, BIRMINGHAM B18 7QH, W MIDLANDS, ENGLAND  
 (Reprint); SELLY OAK HOSP, DEPT BIOCHEM, BIRMINGHAM,  
 ENGLAND  
 COUNTRY OF AUTHOR: ENGLAND  
 SOURCE: ANNALS OF THE RHEUMATIC DISEASES, (FEB 1991) Vol. 50, No.  
 2, pp. 81-86.  
 ISSN: 0003-4967.  
 PUBLISHER: BRITISH MED JOURNAL PUBL GROUP, BRITISH MED ASSOC HOUSE,  
 TAVISTOCK SQUARE, LONDON, ENGLAND WC1H 9JR.  
 DOCUMENT TYPE: Article; Journal  
 FILE SEGMENT: LIFE; CLIN  
 LANGUAGE: English  
 REFERENCE COUNT: 49  
 ENTRY DATE: Entered SIN: 1994  
 Last Updated on SIN: 1994

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB The ability of fresh sera to resist attack by peroxyl radicals (TRAP)  
 was found to be significantly lower in 20 patients with rheumatoid  
 arthritis (RA) than in 20 healthy controls, consistent with the existence  
 of a redox stress in RA imposed by inflammation. TRAP values in RA varied  
 inversely with a combination of visual analogue pain scale, duration of  
 early morning stiffness, grip strength, and articular index (reflecting



inflammatory activity) using multiple linear regression analysis.

The concentration of the antioxidant vitamin ascorbic acid was lower in RA plasma and the oxidation-reduction equilibrium of ascorbic acid was disturbed, giving further support to the existence of a redox stress. The major determinant of TRAP in vitro was found to be serum uric acid in RA and serum vitamin E in controls. Serum urate concentration in RA correlated inversely with oxidative changes in serum albumin and IgG. It is suggested that serum urate might have an antioxidant role under certain conditions by limiting free radical induced oxidative changes to protein during inflammation.

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Corporation on STN  
ACCESSION NUMBER: 1991:32709 SCISEARCH  
THE GENUINE ARTICLE: ER147  
TITLE: APPLICATION OF A NEW ELECTROPHORESIS TECHNIQUE (2D CRYOSTAT SECTION ELECTROPHORESIS) TO SYNOVIAL TISSUE OF RA PATIENTS AND COMPARISON WITH IMMUNOHISTOCHEMICAL STAINING METHODS  
AUTHOR: FRITZ P (Reprint); MISCHLINSKI A; MÜLTHAUPT H; AROLD N; NEUHÖFF V; SCHRODER S; DITTEL K; PFLEIDERER W  
CORPORATE SOURCE: ROBERT BOSCH KRANKENHAUSEN, INST PATHOL, AUERBACHSTR 110, W-7000 STUTTGART, GERMANY (Reprint); UNIV STUTTGART, MAX PLANCK INST EXPTL MED, INST ISOTOPENFORSCH, W-7000 STUTTGART 80, GERMANY; MARIEN HOSP, CHIRURG ABT, STUTTGART, GERMANY  
COUNTRY OF AUTHOR: GERMANY  
SOURCE: ACTA HISTOCHEMICA, (1990) Supp. [40], pp. 121-126. ISSN: 0065-1281.  
PUBLISHER: GUSTAV FISCHER VERLAG JENA, VILLENANG 2, D-07745 JENA, GERMANY.  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: LIFE  
LANGUAGE: English  
REFERENCE COUNT: 22  
ENTRY DATE: Entered STN: 1994  
Last Updated on STN: 1994

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB We describe a new two dimensional electrophoresis technique which is based on the combination of cryostat section technology and IEF- and SDS-gel electrophoresis. The optimal conditions for two dimensional cryostat section electrophoresis are investigated. The application of this technique to synovial membranes of patients suffering from rheumatoid arthritis and osteoarthritis is described.

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Corporation on STN  
ACCESSION NUMBER: 1989:372973 SCISEARCH  
THE GENUINE ARTICLE: AE898  
TITLE: POSSIBLE ROLE OF FREE-RADICAL ALTERED IGG IN THE ETIOPATHOGENESIS OF RHEUMATOID-ARTHRITIS  
AUTHOR: SWAAK A J G (Reprint); KLEINVELD H A; KLOSTER J F; HACK C E  
CORPORATE SOURCE: DR DANIEL DEN HOED CLIN, DEPT RHEUMATOL, 3075 EA ROTTERDAM, NETHERLANDS (Reprint); ERASMUS UNIV ROTTERDAM, BIOCHEM LAB 1, 3045 PM ROTTERDAM, NETHERLANDS; CENT LAB BLOOD TRANSFUS SERV, AUTOIMMUNE DIS LAB, 1066 CX AMSTERDAM, NETHERLANDS  
COUNTRY OF AUTHOR: NETHERLANDS  
SOURCE: RHEUMATOLOGY INTERNATIONAL, (1989) Vol. 9, No. 1, pp. 1-6. ISSN: 0172-8172.  
PUBLISHER: SPRINGER VERLAG, 175 FIFTH AVE, NEW YORK, NY 10010.  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: LIFE; CLIN  
LANGUAGE: English  
REFERENCE COUNT: 25  
ENTRY DATE: Entered STN: 1994  
Last Updated on STN: 1994

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Corporation on STN  
ACCESSION NUMBER: 1989:249862 SCISEARCH  
THE GENUINE ARTICLE: U2841  
TITLE: REACTIVE OXYGEN SPECIES (ROS) AND INFLAMMATION  
AUTHOR: MULLERPEDDINGHAUS R (Reprint)  
CORPORATE SOURCE: TROPONWERKE GMBH & CO KG, ANTIPHLOGIST & FORSCH, NEURATHER  
RING 1, D-5000 COLOGNE 80, FED REP GER (Reprint)  
COUNTRY OF AUTHOR: FED REP GER  
SOURCE: DEUTSCHE TIERARZTLICHE WOCHENSCHRIFT, (APR 1989) Vol. 96,  
No. 4, pp. 210-212.  
ISSN: 0341-6593.  
PUBLISHER: M H SCHAPER GMBH CO KG, POSTFACH 16 42 16 52 KALANDSTRASSE  
4, W-3220 ALFELD, GERMANY.  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: AGRI  
LANGUAGE: German  
REFERENCE COUNT: 111  
ENTRY DATE: Entered STN: 1994  
Last Updated on STN: 1994

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Corporation on STN  
ACCESSION NUMBER: 1989:6752 SCISEARCH  
THE GENUINE ARTICLE: R4913  
TITLE: IMMUNOPHOTOMETRIC QUANTIFICATION OF EXTRAVASCULAR  
IMMUNOGLOBULIN DEPOSITS IN THE SYNOVIAL-MEMBRANE OF  
PATIENTS WITH OSTEO-ARTHRITIS AND RHEUMATOID-ARTHRITIS  
AUTHOR: FRITZ P (Reprint); HONES J; RAUTENSTRAUCH H; LUTZ D;  
TUCZEK H V; MISCHLINSKI A; SAAL H J; KLEIN C; LASCHNER W  
CORPORATE SOURCE: ROBERT BOSCH KRANKENHAUS, INST PATHOL, D-7000 STUTTGART,  
FED REP GER (Reprint); ORTHOPAD FACHPRAXIS, D-7000  
STUTTGART, FED REP GER; ROBERT BOSCH GMBH, ZENTRUM INNERE  
MED, STUTTGART, FED REP GER; UNIV STUTTGART, FAC BIOCHEM,  
D-7000 STUTTGART 80, FED REP GER; UNIV TUBINGEN, MED KLIN  
1, D-7400 TUBINGEN 1, FED REP GER  
COUNTRY OF AUTHOR: FED REP GER  
SOURCE: BASIC AND APPLIED HISTOCHEMISTRY, (1988) Vol. 32, No. 4,  
pp. 455-469.  
ISSN: 0391-7258.  
PUBLISHER: BASIC APPLIED HISTOCHEM C/O ISTITUTO ISTOLOGIA, PIAZZA  
BOTTA 10, 27100 PAVIA, ITALY.  
DOCUMENT TYPE: Article; Journal  
FILE SEGMENT: LIFE  
LANGUAGE: English  
REFERENCE COUNT: 41  
ENTRY DATE: Entered STN: 1994  
Last Updated on STN: 1994

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Corporation on STN  
ACCESSION NUMBER: 1988:339155 SCISEARCH  
THE GENUINE ARTICLE: N7945  
TITLE: THE PHARMACOLOGY AND BIOCHEMICAL-ACTION OF 2ND-LINE AGENTS  
AUTHOR: RUDGE S R (Reprint); PERRETT D  
CORPORATE SOURCE: LONDON HOSP, LONDON E1 1BB, ENGLAND (Reprint); NEWHAM GEN  
HOSP, LONDON E13 8SL, ENGLAND; ST BARTHOLOMEWS HOSP, COLL  
MED, DEPT MED, LONDON EC1A 7BE, ENGLAND  
COUNTRY OF AUTHOR: ENGLAND  
SOURCE: BAILLIERES CLINICAL RHEUMATOLOGY, (APR 1988) Vol. 2, No.  
1, pp. 185-210.  
ISSN: 0950-3579.  
PUBLISHER: BAILLIERE TINDALL, 24-28 OVAL RD, LONDON, ENGLAND NW1 7DX.  
DOCUMENT TYPE: General Review; Journal  
FILE SEGMENT: CLIN  
LANGUAGE: English  
REFERENCE COUNT: 116  
ENTRY DATE: Entered STN: 1994  
Last Updated on STN: 1994

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( "SWAAK A J G, 1989, V9, P1,?" /RE)

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FILE 'SCISEARCH' ENTERED AT 15:12:04 ON 20 MAY 2008

L1 0 S HEWITT SD/AU  
L2 151 S HEWITT S/AU  
L3 392 S LUNEC J/AU  
L4 629 S MORRIS C/AU  
L5 2 S L2 AND L3 AND L4  
L6 271 S BLAKE D/AU  
L7 0 S L6 AND L5  
L8 19541 S ANNALS OF THE RHEUMATIC DISEASES/JT  
L9 232 S L8 AND 1987/PY  
L10 3 S L9 AND RADICAL/TI  
SEL L10 1 CIT  
L11 14 S E1  
SEL L11 11 CIT  
L12 4 S E2

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L13 4 L12 NOT L11

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Corporation on STN  
ACCESSION NUMBER: 1992:127554 SCISEARCH  
THE GENUINE ARTICLE: GV472  
TITLE: INTERACTION(S) BETWEEN ESSENTIAL FATTY-ACIDS, EICOSANOIDS,  
CYTOKINES, GROWTH-FACTORS AND FREE-RADICALS - RELEVANCE TO  
NEW THERAPEUTIC STRATEGIES IN RHEUMATOID-ARTHRITIS AND  
OTHER COLLAGEN VASCULAR DISEASES  
AUTHOR: DAS U N (Reprint)  
CORPORATE SOURCE: NIZAMS INST MED SCI, DEPT MED, HYDERABAD 500482, INDIA  
(Reprint)  
COUNTRY OF AUTHOR: INDIA  
SOURCE: PROSTAGLANDINS LEUKOTRIENES AND ESSENTIAL FATTY ACIDS,  
(DEC 1991) Vol. 44, No. 4, pp. 201-210.  
ISSN: 0952-3278.  
PUBLISHER: CHURCHILL LIVINGSTONE, JOURNAL PRODUCTION DEPT, ROBERT  
STEVENSON HOUSE, 1-3 BAXTERS PLACE, LEITH WALK, EDINBURGH,  
MIDLOTHIAN, SCOTLAND EH1 3AF.  
DOCUMENT TYPE: General Review; Journal  
FILE SEGMENT: LIFE  
LANGUAGE: English  
REFERENCE COUNT: 92  
ENTRY DATE: Entered STN: 1994  
Last Updated on STN: 1994

\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*

AB Eicosanoids, lymphokines, and free radicals are known to participate in the pathogenesis of inflammation. Tumour necrosis factor (TNF), interleukin-1 and 6 (IL-1 and IL-6) and colony stimulating factor -1 (CSF-1) are secreted mainly by activated macrophages, whereas T-cells secrete IL-2, IL-3, IL-4 and interferon-gamma (IFN-gamma). In addition, activated macrophages and lymphocytes can also produce eicosanoids and free radicals which have potent pro-inflammatory actions. Eicosanoids, lymphokines, and free radicals can modulate the immune response, cell proliferation, stimulate collagenase and proteases secretion and induce bone resorption; events which are known to be associated with various collagen vascular diseases. On the other hand transforming growth factor-beta (TGF-beta) produced by synovial tissue, platelets and lymphocytes can inhibit collagenase production, suppress T-cell and

NK-cell proliferation and activation and block free radical generation and seems to be of benefit in rheumatoid arthritis. Drugs such as cyclosporine, 1,25-dihydroxycholecalciferol and pentoxifylline can block lymphokine and TNF production and thus, may inhibit the inflammatory process. Essential fatty acids, the precursors of eicosanoids, are suppressors of T-cell proliferation, IL-1, IL-2 and TNF production and have been shown to be of benefit in rheumatoid arthritis, systemic lupus erythematosus and glomerulonephritis. Thus, the interactions between essential fatty acids, eicosanoids, lymphokines, TGF-beta and free radicals suggest that new therapeutic strategies can be devised to modify the course of collagen vascular diseases.

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Corporation on STN  
 ACCESSION NUMBER: 1991:86350 SCISEARCH  
 THE GENUINE ARTICLE: EW526  
 TITLE: OXYGEN RADICALS, INFLAMMATION, AND ARTHRITIS -  
 PATHOPHYSIOLOGICAL CONSIDERATIONS AND IMPLICATIONS FOR  
 TREATMENT  
 AUTHOR: GREENWALD R A (Reprint)  
 CORPORATE SOURCE: LONG ISL JEWISH MED CTR, B206A SCHWARTZ RES CTR, DIV  
 RHEUMATOL, NEW HYDE PK, NY 11042 (Reprint); YESHIVA UNIV  
 ALBERT EINSTEIN COLL MED, MED, BRONX, NY 10461  
 COUNTRY OF AUTHOR: USA  
 SOURCE: SEMINARS IN ARTHRITIS AND RHEUMATISM, (FEB 1991) Vol. 20,  
 No. 4, pp. 219-240.  
 ISSN: 0049-0172.  
 PUBLISHER: W B SAUNDERS CO, INDEPENDENCE SQUARE WEST CURTIS CENTER,  
 STE 300, PHILADELPHIA, PA 19106-3399.  
 DOCUMENT TYPE: General Review; Journal  
 FILE SEGMENT: CLIN  
 LANGUAGE: English  
 REFERENCE COUNT: 173  
 ENTRY DATE: Entered STN: 1994  
 Last Updated on STN: 1994

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Corporation on STN  
 ACCESSION NUMBER: 1990:472497 SCISEARCH  
 THE GENUINE ARTICLE: DV717  
 TITLE: SYNTHESIS OF SPECIFIC IGG IDIOTYPES BY RHEUMATOID SYNOVIUM  
 AUTHOR: HOFFMAN W L (Reprint); JUMP A A; SMILEY J D  
 CORPORATE SOURCE: UNIV TEXAS, SW MED CTR, DEPT INTERNAL MED, DALLAS, TX  
 75230  
 COUNTRY OF AUTHOR: USA  
 SOURCE: ARTHRITIS AND RHEUMATISM, (AUG 1990) Vol. 33, No. 8, pp.  
 1196-1204.  
 ISSN: 0004-3591.  
 PUBLISHER: LIPPINCOTT-RAVEN PUBL, 227 EAST WASHINGTON SQ,  
 PHILADELPHIA, PA 19106.  
 DOCUMENT TYPE: Article; Journal  
 FILE SEGMENT: LIFE; CLIN  
 LANGUAGE: English  
 REFERENCE COUNT: 28  
 ENTRY DATE: Entered STN: 1994  
 Last Updated on STN: 1994

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Corporation on STN  
 ACCESSION NUMBER: 1990:46335 SCISEARCH  
 THE GENUINE ARTICLE: CH637  
 TITLE: INTERACTIONS BETWEEN OXYGEN FREE-RADICALS AND PROTEINS  
 AUTHOR: KRAINSVELD H A (Reprint); SWAAK A J G; HACK C E; KOSTER J F  
 ERASMUS UNIV, DEPT BIOCHEM 1, POB 1738, 3000 DR ROTTERDAM,  
 NETHERLANDS (Reprint); DANIAL DENHOED CANC CTR, DEPT  
 RHEUMATOL, ROTTERDAM, NETHERLANDS; NETHERLANDS RED CROSS,  
 BLOOD TRANSFUS SERV, CENT LAB, DEPT AUTOIMMUNE DIS,  
 AMSTERDAM, NETHERLANDS  
 COUNTRY OF AUTHOR: NETHERLANDS

SOURCE: SCANDINAVIAN JOURNAL OF RHEUMATOLOGY, (1989) Vol. 18, No. 6, pp. 341-352.  
 ISSN: 0300-9742.  
 PUBLISHER: SCANDINAVIAN UNIVERSITY PRESS, PO BOX 2959 TOYEN, JOURNAL DIVISION CUSTOMER SERVICE, N-0608 OSLO, NORWAY.  
 DOCUMENT TYPE: General Review; Journal  
 FILE SEGMENT: CLIN  
 LANGUAGE: English  
 REFERENCE COUNT: 78  
 ENTRY DATE: Entered STN: 1994  
 Last Updated on STN: 1994

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